# SEARCH REQUEST FORM

## Scientific and Technical Information Center

Requester's Full Name: __VU Le__     Examiner # : __7151 2__  Date: __7/23__
Art Unit: __2613__    Phone Number 30 __8 to6013__    Serial Number: __09 849 507__
Mail Box and Bldg/Room Location: __6D40__    Results Format Preferred (circle): PAPER  DISK  E-MAIL

**If more than one search is submitted, please prioritize searches in order of need.**
**************************************************************************************

Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc, if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: _____

Inventors (please provide full names): _____

_____

Earliest Priority Filing Date: _____

*For Sequence Searches Only* Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.
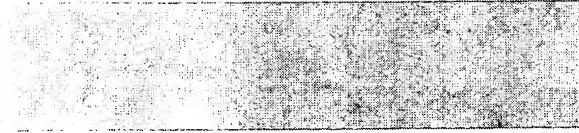
US 5914982

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**STAFF USE ONLY**

| | Type of Search | Vendors and cost where applicable |
|---|---|---|
| Searcher: __Kes__ | NA Sequence (#)_____ | STN _____ |
| Searcher Phone #: __305-4671__ | AA Sequence (#)_____ | Dialog __/__ |
| Searcher Location: _____ | Structure (#) _____ | Questel/Orbit __/__ |
| Date Searcher Picked Up: __7/23__ | Bibliographic _____ | Dr.Link _____ |
| Date Completed: __7/23__ | Litigation __X__ | Lexis/Nexis __/__ |
| Searcher Prep & Review Time: _____ | Fulltext _____ | Sequence Systems _____ |
| Clerical Prep Time: _____ | Patent Family _____ | WWW/Internet _____ |
| Online Time: __10__ | Other _____ | Other (specify)_____ |

PTO-1590 (8-01)

# Memorandum

**To:** Mr. Le

**From:** Kimberly Johnson

**Date:** 7/23/02

**Re:** Litigation search request 5,914,982

Attached please find the results of your litigation search. Please feel free to contact me if you have additional questions or concerns. Thank you and have a great day.

Kimberly Johnson
TIS
EIC 2600
305-4071

*1 / 1  PLUSPAT - ©QUESTEL-ORBIT - image*

| | | |
|---|---|---|
| **PN** | - | US5914982 A 19990622 [US5914982] |
| **TI** | - | (A) Method and apparatus for training linear equalizers in a PCM modem |
| **PA** | - | (A) ROCKWELL SEMICONDUCTOR SYS INC (US) |
| **IN** | - | (A) BJARNASON ELIAS (IS); JONSSON OLAFUR (IS); OLAFSSON SVERRIR (IS) |
| **AP** | - | US87431697 19970613 [1997US-0874316] |
| **PR** | - | US87431697 19970613 [1997US-0874316] |
| **IC** | - | (A) H04B-001/38 H04L-005/16 |
| **EC** | - | H04L-025/03B1A7 <br> H04L-025/49M5 |
| **ICO** | - | T04L-025/03B11A1 <br> T04L-025/03B13F1T3F <br> T04L-025/03B15A3A |
| **PCL** | - | ORIGINAL (O) : 375222000; CROSS-REFERENCE (X) : 375231000 375233000 375295000 |
| **DT** | - | Basic |
| **CT** | - | US4489416; US4995057; US5463661; US5661718; US5666378; US5677951; US5694423; US5706344; US5721772; US5732112; US5737389; US5737410; US5740242; US5761088; US5764694; US5809075 |
| **STG** | - | (A) United States patent |
| **AB** | - | A pulse code modulation (PCM) modem system employs a relatively white training signal to optimize the adaptive filter coefficients in the receiver equalizers. During the training mode, any line coding or equivalent spectral shaping is disabled to provide a training signal sequence having a substantially even spectral content. The presence of DC within the training signal reduces the likelihood that the error function of the equalizers will settle at a local minimum. Following the training interval, the encoder enables the line coder to condition the digital input sequences, introduce DC nulls, and reduce the detrimental effects of baseline wander. |

*1 / 1  LGST - ©LEGSTAT*

| | | |
|---|---|---|
| **PN** | - | US 5914982 [US5914982] |
| **AP** | - | US 874316/97 19970613 [1997US-0874316] |
| **DT** | - | US-P |
| **ACT** | - | 19970613 US/AE-A <br> APPLICATION DATA (PATENT) <br> US 874316/97 19970613 [1997US-0874316] |

19971201 US/AS02
ASSIGNMENT OF ASSIGNOR'S INTEREST
ROCKWELL INTERNATIONAL CORPORATION 600 ANTON BOULEVARD, SUITE 700 COSTA MESA, CA * BJARNASON, ELIAS : 19971117; JONSSON, OLAFUR : 19971117; OLAFSSON, SVERRIR : 19971117

19990622 US/A
PATENT

20020409 US/RF
REISSUE APPLICATION FILED
20010504

UP - 2002-17

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*1 / 1  CRXX - ©CLAIMS/RRX*

PN - 5,914,982 A 19990622 [US5914982]

PA - Rockwell Semiconductor Systems Inc

ACT - 19991129 REASSIGNED
ASSIGNMENT OF ASSIGNOR'S INTEREST

Assignor: BJARNASON, ELIAS DATE SIGNED: 11/17/1997
JONSSON, OLAFUR DATE SIGNED: 11/17/1997

Assignee: ROCKWELL SEMICONDUCTOR SYSTEMS, INC. 4311 JAMBOREE ROAD
NEWPORT BEACH, CALIFORNIA 92660-309

Reel 010456/Frame 0934

Contact: SNELL & WILMER MARK M. TAKAHASHI, ESQ ONE ARIZONA CENTER 400
EAST VAN BUREN STREET PHOENIX, AZ 85004-2202


20010504 REISSUE REQUESTED
ISSUE DATE OF O.G.: 20020409
REISSUE REQUEST NUMBER: 09/849501
EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 2631


Reissue Patent Number:

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*1 / 1  PAST - ©Thomson Derwent*

AN - 200215-001678

PN - 5914982 A [US5914982]

OG - 2002-04-09

ACT - REISSUE APPLICATION FILED

UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT

5914982

<=1> GET 1st DRAWING SHEET OF 3

June 22, 1999

Method and apparatus for training linear equalizers in a PCM
modem

REISSUE: May 4, 2001 - Reissue Application filed May 4, 2001 (O.G. Apr. 9, 2002)
Ex. Gp.: 2631; Re. S.N. 09/849,501April 9, 2002

APPL-NO: 08874316

FILED-DATE: June 13, 1997

GRANTED-DATE: June 22, 1999

CORE TERMS:  equalizer, training, modem, sequence, spectral, feedback, encoder,
feed-forward, adaptive, linear ...

ENGLISH-ABST:

A pulse code modulation (PCM) modem system employs a relatively white
training signal to optimize the adaptive filter coefficients in the receiver
equalizers. During the training mode, any line coding or equivalent spectral
shaping is disabled to provide a training signal sequence having a substantially
even spectral content. The presence of DC within the training signal reduces the
likelihood that the error function of the equalizers will settle at a local
minimum. Following the training interval, the encoder enables the line coder to
condition the digital input sequences, introduce DC nulls, and reduce the
detrimental effects of baseline wander.

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to the end of the request before you enter it.

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What you enter will be Search Level 1.

For further explanation, press the H key (for HELP) and then the ENTER key.

5,914,982 OR 5914982

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For further explanation, press the H key (for HELP) and then the ENTER key.

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       Set   Items   Description
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?s pn=us 5914982
     S1       1   PN=US 5914982
?t 1/39/1
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**1/39/1**
DIALOG(R)File 345:Inpadoc/Fam.& Legal Stat
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15196959
Basic Patent (No,Kind,Date): US 5914982 A  19990622   <No. of Patents: 002>
Patent Family:
```
     Patent No   Kind  Date       Applic No   Kind  Date
     US 5914982     A   19990622   US 874316      A   19970613   (BASIC)
     US 5949819     A   19990907   US 213961      A   19981217
```
Priority Data (No,Kind,Date):
     US 874316 A  19970613
     US 213961 A  19981217
     US 874316 A1 19970613


PATENT   FAMILY:
UNITED STATES OF AMERICA (US)
   Patent (No,Kind,Date):  US 5914982  A   19990622
     METHOD AND APPARATUS FOR TRAINING LINEAR EQUALIZERS IN A PCM MODEM
       (English)
     Patent Assignee:  ROCKWELL SEMICONDUCTOR SYS INC   (US)
     Author (Inventor):  BJARNASON ELIAS  (IS); JONSSON OLAFUR  (IS);
       OLAFSSON SVERRIR  (IS)
     Priority (No,Kind,Date):  US 874316  A   19970613
     Applic (No,Kind,Date):  US 874316  A   19970613
     National Class: *  375222000; 375231000; 375233000; 375295000
     IPC: *  H04B-001/38; H04L-005/16
     Derwent WPI Acc No: *  G  99-428601; G  99-579344; G  99-428601
     Language of Document:  English
   Patent (No,Kind,Date):  US 5949819  A   19990907
     METHOD AND APPARATUS FOR TRAINING LINEAR EQUALIZERS IN A PCM MODEM
       (English)
     Patent Assignee:  CONEXANT SYSTEMS INC  (US)
     Author (Inventor):  BJARNASON ELIAS  (IS); JONSSON OLAFUR  (IS);
       OLAFSSON SVERRIR  (IS)
     Priority (No,Kind,Date):  US 213961  A   19981217; US 874316  A1
       19970613
     Applic (No,Kind,Date):  US 213961  A   19981217
     National Class: *  375222000; 375231000
     IPC: *  H04B-001/38
     Derwent WPI Acc No: *  G  99-428601; G  99-579344; G  99-579344
     Language of Document:  English


UNITED STATES OF AMERICA (US)
   Legal Status (No,Type,Date,Code,Text):
     US 5914982       P   19970613 US AE       APPLICATION DATA (PATENT)
                                 (APPL. DATA (PATENT))
                                 US 874316  A   19970613
     US 5914982       P   19971201 US AS02      ASSIGNMENT OF ASSIGNOR'S
                                 INTEREST
                                 ROCKWELL INTERNATIONAL CORPORATION 600 ANTON
                                 BOULEVARD, SUITE 700 COSTA MESA, CA ;
                                 BJARNASON, ELIAS : 19971117; JONSSON, OLAFUR
                                 : 19971117; OLAFSSON, SVERRIR : 19971117
     US 5914982       P   19990622 US A         PATENT
     US 5914982       P   20020409 US RF        REISSUE APPLICATION FILED
                                 (REISSUE APPL. FILED)
                                 20010504
     US 5949819       P   19970613 US AA        PRIORITY
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                              US 874316  A1  19970613
            US 5949819      P   19981217  US AE        APPLICATION DATA (PATENT)
                              (APPL. DATA (PATENT))
                              US 213961  A   19981217
            US 5949819      P   19990329  US AS02       ASSIGNMENT OF ASSIGNOR'S
                              INTEREST
                              CONEXANT SYSTEMS, INC. 4311 JAMBOREE ROAD
                              NEWPORT BEACH, CALIFORNIA 92660 ; BJARNASON,
                              ELIAS : 19990316; JONSSON, OLAFUR : 19990316;
                              OLAFSSON, SVERRIR : 19990316
            US 5949819      P   19990907  US A          PATENT
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